

Waves and Sound

Objective	Reinforcement	Quiz Score	Practice MC	TOTAL
1. Define, distinguish, and discuss: transverse wave, longitudinal wave, wavelength, amplitude, crest, trough, period, frequency, medium, compression, rarefaction, nodes, and antinodes. (10.1)	<ol style="list-style-type: none"> 1. Read Textbook: 25.2, 25.3, 25.5, 25.6, 25.8, 26.1, 26.2 and make a vocab sheet that includes all of the words 2. Read TPC: Waves Lessons 1-4 3. MoP Waves: Sublvl 1,2 (choose one) 4. MoP Sound and Music: Sublvl 1,2 (choose one) 5. SBM: Concept Development Practice 25-1, 26-1 6. SBM: Reading & Study WS - Exercises - Ch 25: #5-16, 26-30, 39 			
2. Solve relationship/numerical problems involving wavelength, frequency, and wave speed. (10.2)	<ol style="list-style-type: none"> 1. Read Textbook: 25.4, 26.4 2. SBM: Problem Solving Exercises 13-1 3. Read TPC: Waves Lesson 2e 4. SBM: Reading & Study WS - Exercises - Ch 25: #17, 19-25 5. SBM: Reading & Study WS - Math Prac. - Ch 25: #1-3 			
3. Define, distinguish, and discuss: reflection, refraction, diffraction, interference, and resonance. (10.3)	<ol style="list-style-type: none"> 1. Read Textbook: 26.6-26.8 2. Read TPC: Waves Lesson 3b,3c 3. MoP Waves: Sublvl 3,4 4. SBM: Reading & Study WS - Exercises - Ch 25: #31-37 			
4. Apply wave superposition to the effects of constructive and destructive interference. (10.4)	<ol style="list-style-type: none"> 1. Read Textbook: 25.7, 26.9 2. Read TPC: Waves Lesson 3c 3. MoP Waves: Sublvl 5 4. SBM: Reading & Study WS - Exercises - Ch 25: #31-37, 41 			
5. Solve conceptual and numerical problems involving beats. (10.5)	<ol style="list-style-type: none"> 1. Read Textbook: 26.10 2. SBM: Problem Solving Exercises 13-3 #13 3. Read TPC: Sound Waves and Music Lesson 3a 4. MoP Waves: Sublvl 6 5. SBM: Reading & Study WS - Exercises - Ch 26: #48-50 			
6. Qualitatively explain the Doppler effect and calculate Doppler shifts. (10.7)	<ol style="list-style-type: none"> 1. Read Textbook: 25.9 2. Read TPC: Waves Lesson 3d 3. MoP Waves: Sublvl 7,8 (choose one) 4. MoP Sound and Music: Sublvl 6-11 (choose one) 5. SBM: Problem Solving Exercises 13-2 #5, 6, 9 6. SBM: Reading & Study WS - Exercises - Ch 25: #44-48 			
7. Calculate the speed, frequency, or wavelength for standing waves on strings or in open/closed pipes. (10.6)	<ol style="list-style-type: none"> 1. Read Textbook: 25.8 & Describe what you saw on: http://www.philtulga.com/harmonics.html 3. SBM: Problem Solving Exercises 13-3 #10-12 4. Read TPC: Sound Waves and Music Lesson 4,5 5. SBM: Reading & Study WS - Exercises - Ch 26: #38, 39 			

If your total (quiz + practice MC) percentage is below 52%, then you are required read the book & TPC and then complete either the SBM or MOP for that objective. These reinforcements will be due the day of the test, stapled to the back of this page. Remember, if you have no reinforcements to do, turn in this sheet for full credit.

SBM = Supplemental Book Material found on the Extras Drive Pathway: Extras→Science→Physics→Physics (432)→SBM

TPC =Tutorials found at www.physicsclassroom.com MOP = Minds on Physics found at www.physicsclassroom.com (be sure to print the success screen by clicking Prnt Scr on the function keys and pasting that into a word document.)